

XV. Oceanography- Government

Section XV of the Modifications of Activities Planned for 2000-2001 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 2000-2001 season.

Note: For actual tracks of the Research Vessels NATHANIEL B. PALMER and LAURENCE M. GOULD please see Attachment C, Cruise Tracks.

R/V NATHANIEL B. PALMER

The R/V NATHANIEL B. PALMER made eight science cruises during the period of 30 March 2000 through 31 March 2001. Cruises are:

Cruise NBP00-2

7 April – 6 May 2000: *Ocean Bottom Seismometer Refraction Profiling for Crustal Structure in the Bransfield Strait.*

GO-306-O (Austin)

Cruise NBP00-3

10 May – 1 June 2000: *Study of sediment dispersal patterns across the Palmer Deep region of Antarctica.*

GO-096-O (Domack)

Cruise NBP00-4

5 June – 24 June 2000: *Study of the impact and fate of bloom material on the West Antarctic Shelf seafloor.*

BO-303-O (Smith) BO-313-O (DeMaster)

Cruise NBP00-5

1 July – 11 July 2000: *Palmer Station hazardous waste pickup for transport to and disposal in United States.*

Cruise NBP00-6A

19 July – 12 August 2000: *Hazardous waste transport and support of “science of opportunity” Biology & Medicine project.*

BO-200-0 (Jeffery)

Vessel Maintenance Period

13 August – 2 September 2000: *Edison Chouest Offshore and North American Shipbuilding begin vessel modifications required for new charter. Seismic System and SeaBeam Sea Trials Preparation get underway.*

Cruise NBP00-6B

3 September – 10 September 2000: *Charter re-compete Acoustic and SeaBeam trials. Antarctic Research Vessel Oversight Committee meeting held onboard.*

Vessel Maintenance Period

11 September – 24 September 2000: *Vessel modifications, seismic systems and SeaBeam sea trials’ preparation continue.*

Cruise NBP00-6C

25 September – 4 October 2000: *Seismic System and SeaBeam 2112 Sea Trials.*

Cruise NBP00-6D

5 October – 22 October 2000: *Transit to Punta Arenas, Chile.*

Cruise NBP00-7A

27 October – 15 November 2000: *Ocean Bottom Seismometer Refraction Profiling for Crustal Structure in the Bransfield Strait.*

GO-306-O (Austin)

Cruise NBP00-7B

19 November – 17 December 2000: *Reconstructions of the late Cretaceous and Cenozoic periods in the southwest Pacific Ocean.*

GO-071-O (Cande)

Cruise NBP00-8

20 December 2000 – 25 January 2001: *Study of shelf and bottom water formation near East Antarctic polynyas and glaciers.*

OO-225-O (Jacobs, Fairbanks) BO-177-O (Sambrotto)

BO-073-A (Arrigo)

Cruise NBP01-01

30 January – 29 March 2001: *Study of Quaternary glacial history and paleoenvironments of the East Antarctic Margin by GO-074-O. OO-278-O studied particulate organic carbon production and export in the Indian Sector of the Southern Ocean.*

GO-073-O (Leventer) OO-278-O (Pilska)

Biology & Medicine

Principal Investigator	I.D. No.	Institution
Arrigo, Kevin (+1)	BO-073-A	Stanford University
Sambrotto, Ray (+3)	BO-177-O	Lamont-Doherty Earth Observatory
Jeffrey, Wade (+6)	BO-200-O	University of West Florida
Smith, Craig (+7)	BO-303-O	University of Hawaii
DeMaster, Dave (+5)	BO-313-O	North Carolina State University

Geology & Geophysics

Principal Investigator	I.D. No.	Institution
Cande, Steve (+2)	GO-071-O	Scripps Institute of Oceanography
Leventer, Amy (+23)	GO-073-O	Colgate University
Arrigo, Kevin (+1)	GO-073-A	Stanford University
Austin, Jamie (+9)	GO-306-O	University of Texas Institute for Geophysics
Domack, Gene (+19)	GO-096-O	Hamilton College

Ocean & Climate Systems

Principal Investigator	I.D. No.	Institution
Jacobs, Stan & Fairbanks, Richard (+10)	OO-225-O	Lamont-Doherty Earth Observatory
Pilskaln, Cynthia (+2)	OO-278-O	University of Maine
Chereskin, Teri (+0)	OO-315-O	University of Hawaii

R/V LAURENCE M. GOULD

The R/V LAURENCE M. GOULD made 13 science cruises and passenger transports to the Antarctic Peninsula during the period of 31 March 2000 through 1 April 2001.

Cruise LMG00-3A

28 March – 21 April 2000: *Acquisition and operation of broadband seismograph equipment at Chilean bases in the Antarctic Peninsula Region.*

GO-097-O (Wiens) OO-124-O (Visbeck)

Cruise LMG00-4

25 April 2000 – 12 May 2000: *GO-072-O Mooring Retrieval. Palmer Station Logistics port call.*

GO-072-O (Dunbar)

Cruise LMG00-5

16 May 2000 – 15 June 2000: *Multidisciplinary study in the Deception Island caldera*

BO-050-O (Smith) GO-281-O (Scheltema)

OO-315-O (Chereskin) OO-319-O (Sturz)

Cruise LMG00-6A through LMG00-6D

19 June – 12 August 2000: *Palmer Station Logistics Support.*

Cruise LMG00-7

15 August – 10 September 2000: *Maintenance Period and dry dock in Talcahuano, Chile.*

Cruise LMG00-8 and 8A

15 September – 13 October 2000: *Palmer Station Opening/Turnover and a study of natural product drugs from a cold-water organisms (on LMG00-8A only).*

BO-282-O (Dietzman)

Cruise LMG00-9

17 October – 8 November 2000: *Study of the impact and fate of bloom material on the West Antarctic Shelf seafloor. Copacabana Field Camp Put-in.*

BO-303-O (Smith) BO-313-O (DeMaster) BO-040-O (Trivelpiece)

Cruise LMG00-10

12 November – 4 December 2000: *Ongoing time-series study of the water column and benthic community in and around the Deception Island caldera region of Antarctica. Open Cape Shirreff Field Camp.*

BO-050-O (K. Smith)

Cruise LMG00-11

8 December – 24 December 2000: *Study of global climate change and the evolutionary ecology of Antarctic Mollusks in the late Holocene.*

GO-065-O (Aronson)

Cruise LMG01-1

4 January – 30 January 2001: *Long-Term Study of the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER).*

BP-013-O (Fraser) BP-016-O (Vernet) BP-021-O (Martinson)

BP-028-O (Quetin) BP-032-O (Smith) BP-046-O (Karl)

Cruise LMG01-1A

2 February – 16 February 2001: *United States State Department Antarctic Treaty Inspection. Palmer Station Logistics port call.*

Cruise LMG01-2

20 February – 14 March 2001: *Study of the impact and fate of bloom material on the West Antarctic Shelf seafloor.*

BO-303-O (Smith) BO-313-O (DeMaster)

Biology & Medical Research

Principal Investigator	I.D. No.	Institution
Trivelpiece, Wayne (+5)	BO-040-O	Montana State University
Smith, Ken (+17)	BO-050-O	Scripps Institute of Oceanography
Karl, David (+6)	BP-046-O	University of Hawaii
Dietzman, Greg (+2)	BO-282-O	White Point Systems, Inc.
Smith, Craig (+13)	BO-303-O	University of Hawaii
DeMaster, Dave (+9)	BO-313-O	North Carolina State University
Fraser, Bill (+2)	BP-013-O	Montana State University
Vernet, Maria (+5)	BP-016-O	Scripps Institute of Oceanography
Martinson, Doug (+0)	BP-021-O	Lamont-Doherty Earth Observatory
Quetin, Langdon & Ross, Robin (+6)	BP-028-O	University of California, Santa Barbara
Smith, Ray (+3)	BP-032-O	University of California, Santa Barbara

Geology & Geophysics

Principal Investigator	I.D. No.	Institution
Aronson, Richard (+4)	GO-065-O	Dauphin Island Sea Lab
Dunbar, Rob (+3)	GO-072-O	Stanford University
Wiens, Doug (+3)	GO-097-O	Washington University
Scheltema, Rudy (+4)	GO-281-O	Woods Hole Oceanographic Institute

Ocean & Climate

Principal Investigator	I.D. No.	Institution
Visbeck, Martin (+8)	OO-124-O	Scripps Institute of Oceanography
Peterson, Ray & Sprintall, Janet (+1)	OO-260-O	Scripps Institute of Oceanography
Chereskin, Teri (+1)	OO-315-O	University of Hawaii
Sturz, Ann (+3)	OO-319-O	University of San Diego

R/V YUZHMOREGEOLOGIYA

Information on cruises conducted by the R/V YUZHMOREGEOLOGIYA on behalf of NOAA's Antarctic Marine Living Resources field program is not available at this time. The "AMLR 2001/2002 Field Season Report" will be available later in the fall. Contact the following address for a copy of the printed report:

Southwest Fisheries Service Center
National Marine Fisheries Service
National Oceanic & Atmospheric Administration
P.O. Box 271
La Jolla, CA 92038

Note: See Appendix III for complete list of scientific personnel for each I.D. No.